

## CLAIMS:

1. A circuit arrangement for filtering and/or selecting single frequencies or frequency ranges, particularly of signals intended for at least an integrated circuit and/or signals generated by at least an integrated circuit, said circuit arrangement (100) comprising at least two electric resonant circuits (10; 20; 30)

5 - with at least an inductive element (12; 22; 32) and

- at least a capacitive element (14; 24; 34),

characterized in that the resonant circuits (10; 20; 30), particularly the inductive elements (12; 22; 32) are magnetically fixedly coupled to each other, and in that at least a part, preferably all resonant circuits (10; 20; 30) of the circuit arrangement (100) are arranged at or

10 on the integrated circuit, particularly on only one metallization plate (40) of the integrated circuit, having an essentially constant ohmic resistance.

2. A circuit arrangement as claimed in claim 1, characterized in that the inductive element (12; 22; 32) is constituted by at least a coil having an inductance ( $L_1$ ;  $L_2$ ;  $L_3$ ) and/or

15 in that the capacitive element (14; 24; 34) is constituted by at least a capacitor having a capacitance ( $C_1$ ;  $C_2$ ;  $C_3$ ).

3. A circuit arrangement as claimed in claim 1 or 2, characterized in that the individual resonant circuits (10; 20; 30) are essentially arranged in a planar way on an outer side, particularly on an outer surface area of the integrated circuit.

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4. A circuit arrangement as claimed in any one of claims 1 to 3, characterized in that the individual resonant circuits (10; 20; 30) are constituted by essentially concentric geometric structures each having at least one turn as an inductive element (12; 22; 32) and

25 each having a capacitor as a capacitive element (14; 24; 34).

5. A circuit arrangement as claimed in claim 4, characterized in that the geometric structure is a circle, an oval, an ellipse, a square, a rectangle or the like.

6. A circuit arrangement as claimed in claim 4 or 5, characterized in that the capacitive element (14; 24; 34) is arranged at the ends of a single turn.
7. A circuit arrangement as claimed in any one of claims 1 to 6, characterized in that at least two inductive elements (12; 22; 32) each comprise one, preferably a plurality of turns which are substantially concentric and/or substantially parallel to each other.
8. A circuit arrangement as claimed in any one of claims 1 to 7, characterized in that the capacitive elements (14; 24; 34) are arranged one after the other in essentially one direction (D).
9. A circuit arrangement as claimed in any one of claims 1 to 8, characterized in that more than two resonant circuits (10; 20; 30) are magnetically fixedly coupled to each other.
10. A circuit arrangement as claimed in any one of claims 1 to 9, characterized in that the resonant circuits (10; 20; 30) of the circuit arrangement (100) are arranged on the upper metallization plate (40) of the integrated circuit.
11. An integrated circuit comprising at least a circuit arrangement (100) as claimed in any one of claims 1 to 10.

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